IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method for signal processing, wherein a sensor signal of an image sensor is provided as an input and wherein the input is reconstructed in a filter to establish an output for further processing, wherein the filter comprises at least one reconstruction-filter selected from the group consisting of: a luminance-reconstruction-filter, a red-green-blue-color-reconstruction-filter and a contour-reconstruction-filter, ~~wherein the input~~wherein the sensor signal comprises a plurality of pixels, and a pixel provides a color value assigned to at least one of the colors red, green or blue,

characterized ~~by~~in that the method comprises the steps of:

[[-]] applying the reconstruction-filter to an array of pixels of predetermined array size comprising a number of pixels of said plurality of pixels, wherein at least one of the number of pixels is formed by a red-pixel assigned to the color of red, at least one of the number of pixels is formed by a blue-pixel assigned to the color of blue, and at least one of the number of pixels is formed by a green-pixel assigned to the color of green~~,~~ ; ~~and~~

[[-]] weightening the red- and/or the blue-pixel by a green-parameter~~,~~;

[[-]] summarizing the pixels of the array into one output-pixel~~,~~ ; and

[[-]] centering the output-pixel in the array.

2. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~wherein said method further comprises the steps of:

positioning a center-output-pixel of a second filter subsequent to a first filter in phase with the output-pixel, ~~in particular~~ by centering the center-output-pixel at the same center position of the array as the output-pixel.

3. (Previously Presented) The method as claimed in claim 1, characterized in that the reconstruction-filter is a luminance-reconstruction-filter and the pixels of the array are added together in one white-pixel being the output-pixel.

4. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~wherein said method further comprises the step of:

choosing the green-parameter in dependence of a sensor matrix of the image sensor.

5. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~ wherein said method further comprises the step of:

choosing the green-parameter in dependence of an optical transfer of an optical system providing an image signal to the image sensor.

6. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~ wherein said method further comprises the step of:

applying the luminance-reconstruction-filter to an array-size of 2 x 2 or 4 x 4 or 6 x 6.

7. (Currently Amended) The method as claimed in claim 6, ~~characterized by~~ wherein said method further comprises:

applying a low-pass-filter to an array size of 4 x 4 or 6 x 6.

8. (Previously Presented) The method as claimed in claim 6, characterized in that the luminance-reconstruction-filter and the low-pass-filter are combined into one single filter.

9. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~ wherein said method further comprises the step of:

applying subsequent to the luminance-reconstruction-filter the color-reconstruction-filter wherein in particular the color-reconstruction-filter comprises a false-color-filter to eliminate false colors from the input.

10. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~ wherein said method further comprises the step of:

applying a post-filter to maintain in its output a phase to the output of a previous applied reconstruction-filter, in particular by applying the post-filter subsequent to a false-color-

filter to maintain a phase to a previous applying luminance-reconstruction-filter.

11. (Currently Amended) The method as claimed in claim 10, ~~characterized by~~ wherein said method further comprises the step of:

applying subsequent to a false-color-filter a post-filter of 2 x 2 array-size, to position a center-output-pixel of a predetermined small array of green-pixels in phase with a white-pixel which is centered with respect to the same array as that to which a luminance-reconstruction-filter has been applied to.

12. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~ wherein said method further comprises the step of:

offering various luminance-reconstruction-filters for appliance, in particular by applying a luminance-reconstruction-filter to an array size of 2 x 2 in case of no or slight optical low pass filtering and/or applying a respective luminance-reconstruction-filter to an increased array-size of 4 x 4 or 6 x 6 upon heavier optical low pass filtering.

13. (Currently Amended) The method as claimed in claim 1, ~~characterized by~~ wherein said method further comprises the step of:

offering various color-reconstruction-filters for appliance, in particular applying a 3x3-color-reconstruction-filter in case of a 4 x 4-luminance-reconstruction-filter and/or applying

a 5 x 5-color-reconstruction-filter in case of a 6 x 6-luminance-reconstruction-filter.

14. (Currently Amended) An apparatus for signal processing, ~~which is in particular adapted to execute the method as claimed in claim 1,~~ said apparatus comprising:

an image sensor for providing a sensor signal as an input; and

a filter for reconstructing the input to establish an output for further processing, wherein the filter comprises at least one reconstruction-filter selected from the group consisting of: a luminance-reconstruction-filter, a red-green-blue-color-reconstruction-filter and a contour-reconstruction-filter,

~~the input~~and wherein the sensor signal comprises a plurality of pixels, and a pixel provides a color value assigned to at least one of the colors red, green or blue,

~~characterized in that~~

~~wherein,~~ the reconstruction-filter is adapted to be applied to an array of pixels of predetermined array size comprising a number of pixels, wherein at least one of the number of pixels is formed by a red-pixel assigned to the color of red, at least one of the number of pixels is formed by a blue-pixel assigned to the color of blue, and at least one of the number of pixels is formed by a green-pixel assigned to the color of green, and wherein

the apparatus ~~is~~ further ~~comprising~~ comprises:

[[-]] means for weightening the red- and/or the blue-pixel with a green-parameter~~,~~;

[[-]] means for summarizing the pixels of the array into one output pixel~~,~~; and

[[-]] means for centering the output pixel in the array.

15. (Currently Amended) A computer-readable medium having stored thereon a computer program product ~~storable on medium readable by a computing system, in particular a computing system of a camera~~, said computer program product comprising a software code section which induces ~~the~~ a computing system to execute the method as claimed in claim 1 when the computer program product is executed on the computing system~~, in particular when executed on a computing system of a camera~~.

16-17. (Cancelled).